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# Phospho-BRAF(T400) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3513a

## Product Information

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| **Application** | WB, DB, E |
| **Primary Accession** | P15056 |
| **Other Accession** | P28028 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Calculated MW** | 84437 |

## Additional Information

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| **Gene ID** | 673 |
| **Other Names** | Serine/threonine-protein kinase B-raf, Proto-oncogene B-Raf, p94, v-Raf murine sarcoma viral oncogene homolog B1, BRAF, BRAF1, RAFB1 |
| **Target/Specificity** | This BRAF Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T400 of human BRAF. |
| **Dilution** | WB~~1:1000 DB~~1:500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Phospho-BRAF(T400) Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | BRAF ( HGNC:1097) |
| **Synonyms** | BRAF1, RAFB1 |
| **Function** | Protein kinase involved in the transduction of mitogenic signals from the cell membrane to the nucleus (Probable). Phosphorylates MAP2K1, and |

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| | thereby activates the MAP kinase signal transduction pathway (PubMed:21441910, PubMed:29433126). Phosphorylates PFKFB2 (PubMed:36402789). May play a role in the postsynaptic responses of hippocampal neurons (PubMed:1508179). |
| **Cellular Location** | Nucleus. Cytoplasm. Cell membrane. Note=Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes. |
| **Tissue Location** | Brain and testis. |

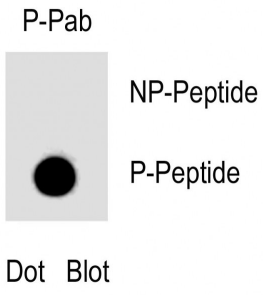
## Background

BRAF is involved in the transduction of mitogenic signals from the cell membrane to the nucleus. It may play a role in the postsynaptic responses of hippocampal neurons. Defects in BRAF are a cause of cardiofaciocutaneous syndrome (CFC syndrome), and a wide range of cancers such as lung cancer, non-Hodgkins lymphoma, and colorectal cancer.

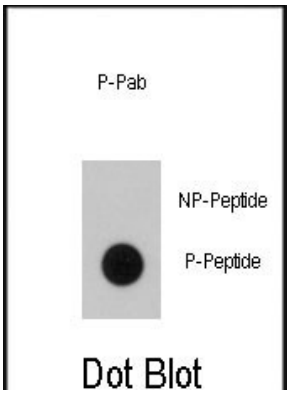
## References


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Yamaguchi, T., et al., J. Biol. Chem. 279(39):40419-40430 (2004).
Frattini, M., et al., Oncogene 23(44):7436-7440 (2004).
Tsavachidou, D., et al., Cancer Res. 64(16):5556-5559 (2004).
Gear, H., et al., Invest. Ophthalmol. Vis. Sci. 45(8):2484-2488 (2004).


## Images




Dot blot analysis of Phospho-BRAF(T400) Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antobodies working concentration was 0. 5ug per ml.




Dot blot analysis of anti-BRAF Phospho-specific Pab (Cat.#AP3513a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

## Citations

- Calcineurin increases glucose activation of ERK1/2 by reversing negative feedback.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.